

1645



RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/870,379

DATE: 01/28/2002  
 TIME: 14:56:19

Input Set : A:\US Utility SEQ ID LST.txt  
 Output Set: N:\CRF3\01282002\I870379.raw

ENTERED

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4 <110> APPLICANT: Donald L. Durden
5   ADVANCED RESEARCH & TECHNOLOGY INSTITUTE
7 <120> TITLE OF INVENTION: Compositions and Methods for Identifying
8   Agents Which Modulate PTEN Function and PI-3 Kinase Pathways
11 <130> FILE REFERENCE: ARTI 0024-US
13 <140> CURRENT APPLICATION NUMBER: 09/870,379
14 <141> CURRENT FILING DATE: 2001-05-30
16 <150> PRIOR APPLICATION NUMBER: PCT/US01/17358
17 <151> PRIOR FILING DATE: 2001-05-30
19 <150> PRIOR APPLICATION NUMBER: 60/274/167
20 <151> PRIOR FILING DATE: 2001-03-08
22 <150> PRIOR APPLICATION NUMBER: 60/208,437
23 <151> PRIOR FILING DATE: 2000-05-30
25 <160> NUMBER OF SEQ ID NOS: 22
27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 1260
32 <212> TYPE: DNA
33 <213> ORGANISM: Homo sapiens
35 <400> SEQUENCE: 1
36   cttctgccat ctctctcctc cttttttcttc agccacaggc tcccagacat gacagccatc      60
37   atcaaaagaga tcgttagcag aaacaaaagg agatatcaag aggatggatt cgacttagac      120
38   ttgacctata tttatccaaa tattattgct atgggatttc ctgcagaaaag acttgaagggt      180
39   gtatacagga acaatattga tgatgtagta aggttttttg attcaaagca taaaaacccat      240
40   tacaagatat acaatctatg tgctgagaga cattatgaca ccgccaaatt taactgcaga      300
41   gttgcacagt atccttttga agaccataac ccaccacagc tagaacttat caaaccccttc      360
42   tgtgaagatc ttgaccaatg gctaagtga gatgacaatc atgttgcagc aattcactgt      420
43   aaagctggaa agggacggac tgggtgaatg atttgtgcat atttattgca tcgggggcaa      480
44   tttttaaagg cacaagaggc cctagatttt tatggggaag taaggaccag agacaaaaag      540
45   ggagtcacaa tcccagtcga gaggcgctat gtatattatt atagctacct gctaaaaaat      600
46   cacctggatt acagacccgt ggcactgctg tttcacaaga tgatgtttga aactattcca      660
47   atgttcagtg gcggaacttg caatcctcag tttgtggtct gccagctaaa ggtgaagata      720
48   tattcctcca attcaggacc cacgcggcgg gaggacaagt tcatgtactt tgagtccct      780
49   cagccattgc ctgtgtgtgg tgatatcaaa gtagagttct tccacaaaac gaacaagatg      840
50   ctcaaaaagg acaaaatgtt tcaacttttg gtaaatacgt tcttcatacc aggaccagag      900
51   gaaacctcag aaaaagtgga aaatggaagt ctttgtgatc aggaaatcga tagcatttgc      960
52   agtatagagc gtgcagataa tgacaaggag tatcttgtac tcaccctaac aaaaaacgat      1020
53   cttgacaaag caaaacaaag caaggccaac cgatacttct ctccaaattt taagggtgaaa      1080
54   ctatacttta caaaaacagt agaggacca tcaaattccag aggctagcag ttcaacttct      1140
55   gtgactccag atgttagtga caatgaacct gatcattata gatattctga caccactgac      1200
56   tctgatccag agaatgaacc ttttgatgaa gatcagcatt cacaaattac aaaagtctga      1260
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 403
  
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61 <212> TYPE: PRT
62 <213> ORGANISM: Homo sapiens
64 <400> SEQUENCE: 2
65 Met Thr Ala Ile Ile Lys Glu Ile Val Ser Arg Asn Lys Arg Arg Tyr
66 1 5 10 15
67 Gln Glu Asp Gly Phe Asp Leu Asp Leu Thr Tyr Ile Tyr Pro Asn Ile
68 20 25 30
69 Ile Ala Met Gly Phe Pro Ala Glu Arg Leu Glu Gly Val Tyr Arg Asn
70 35 40 45
71 Asn Ile Asp Asp Val Val Arg Phe Leu Asp Ser Lys His Lys Asn His
72 50 55 60
73 Tyr Lys Ile Tyr Asn Leu Cys Ala Glu Arg His Tyr Asp Thr Ala Lys
74 65 70 75 80
75 Phe Asn Cys Arg Val Ala Gln Tyr Pro Phe Glu Asp His Asn Pro Pro
76 85 90 95
77 Gln Leu Glu Leu Ile Lys Pro Phe Cys Glu Asp Leu Asp Gln Trp Leu
78 100 105 110
79 Ser Glu Asp Asp Asn His Val Ala Ala Ile His Cys Lys Ala Gly Lys
80 115 120 125
81 Gly Arg Thr Gly Val Met Ile Cys Ala Tyr Leu Leu His Arg Gly Lys
82 130 135 140
83 Phe Leu Lys Ala Gln Glu Ala Leu Asp Phe Tyr Gly Glu Val Arg Thr
84 145 150 155 160
85 Arg Asp Lys Lys Gly Val Thr Ile Pro Ser Gln Arg Arg Tyr Val Tyr
86 165 170 175
87 Tyr Tyr Ser Tyr Leu Leu Lys Asn His Leu Asp Tyr Arg Pro Val Ala
88 180 185 190
89 Leu Leu Phe His Lys Met Met Phe Glu Thr Ile Pro Met Phe Ser Gly
90 195 200 205
91 Gly Thr Cys Asn Pro Gln Phe Val Val Cys Gln Leu Lys Val Lys Ile
92 210 215 220
93 Tyr Ser Ser Asn Ser Gly Pro Thr Arg Arg Glu Asp Lys Phe Met Tyr
94 225 230 235 240
95 Phe Glu Phe Pro Gln Pro Leu Pro Val Cys Gly Asp Ile Lys Val Glu
96 245 250 255
97 Phe Phe His Lys Gln Asn Lys Met Leu Lys Lys Asp Lys Met Phe His
98 260 265 270
99 Phe Trp Val Asn Thr Phe Phe Ile Pro Gly Pro Glu Glu Thr Ser Glu
100 275 280 285
101 Lys Val Glu Asn Gly Ser Leu Cys Asp Gln Glu Ile Asp Ser Ile Cys
102 290 295 300
103 Ser Ile Glu Arg Ala Asp Asn Asp Lys Glu Tyr Leu Val Leu Thr Leu
104 305 310 315 320
105 Thr Lys Asn Asp Leu Asp Lys Ala Asn Lys Asp Lys Ala Asn Arg Tyr
106 325 330 335
107 Phe Ser Pro Asn Phe Lys Val Lys Leu Tyr Phe Thr Lys Thr Val Glu
108 340 345 350
109 Glu Pro Ser Asn Pro Glu Ala Ser Ser Ser Thr Ser Val Thr Pro Asp
110 355 360 365

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111 Val Ser Asp Asn Glu Pro Asp His Tyr Arg Tyr Ser Asp Thr Thr Asp  
 112 370 375 380  
 113 Ser Asp Pro Glu Asn Glu Pro Phe Asp Glu Asp Gln His Ser Gln Ile  
 114 385 390 395 400  
 115 Thr Lys Val  
 118 <210> SEQ ID NO: 3  
 119 <211> LENGTH: 9  
 120 <212> TYPE: PRT  
 121 <213> ORGANISM: Homo sapiens  
 123 <400> SEQUENCE: 3  
 124 Asp Leu Asp Leu Thr Tyr Ile Tyr Pro  
 125 1 5  
 128 <210> SEQ ID NO: 4  
 129 <211> LENGTH: 4  
 130 <212> TYPE: PRT  
 131 <213> ORGANISM: Homo sapiens  
 133 <220> FEATURE:  
 134 <221> NAME/KEY: misc\_feature  
 135 <222> LOCATION: (2)...(3)  
 136 <223> OTHER INFORMATION: Xaa = Any amino acid  
 138 <400> SEQUENCE: 4  
 139 Tyr Xaa Xaa Pro  
 140 1  
 143 <210> SEQ ID NO: 5  
 144 <211> LENGTH: 5  
 145 <212> TYPE: PRT  
 146 <213> ORGANISM: Homo sapiens  
 148 <400> SEQUENCE: 5  
 149 Tyr Phe Ser Pro Asn  
 150 1 5  
 153 <210> SEQ ID NO: 6  
 154 <211> LENGTH: 6  
 155 <212> TYPE: PRT  
 156 <213> ORGANISM: Homo sapiens  
 158 <400> SEQUENCE: 6  
 159 Tyr Leu Val Leu Thr Leu  
 160 1 5  
 163 <210> SEQ ID NO: 7  
 164 <211> LENGTH: 4  
 165 <212> TYPE: PRT  
 166 <213> ORGANISM: Homo sapiens  
 168 <400> SEQUENCE: 7  
 169 Tyr Ser Tyr Leu  
 170 1  
 173 <210> SEQ ID NO: 8  
 174 <211> LENGTH: 7  
 175 <212> TYPE: PRT  
 176 <213> ORGANISM: Homo sapiens  
 178 <400> SEQUENCE: 8

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Input Set : A:\US Utility SEQ ID LST.txt

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179 Tyr Arg Asn Asn Ile Asp Asp
180 1 5
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 7
185 <212> TYPE: PRT
186 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 9
189 His Cys Lys Ala Gly Lys Arg
190 1 5
193 <210> SEQ ID NO: 10
194 <211> LENGTH: 6
195 <212> TYPE: PRT
196 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 10
199 Asp His Asn Pro Pro Gln
200 1 5
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 9
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 11
209 His Phe Trp Val Asn Thr Phe Phe Ile
210 1 5
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 13
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 12
219 Thr Leu Thr Lys Asn Asp Leu Asp Phe Thr Lys Thr Val
220 1 5 10
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 12
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 13
229 Gly Asp Ile Lys Val Glu Phe Phe Thr Lys Thr Val
230 1 5 10
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 14
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 14
239 Asp Lys Ala Asn Lys Asp Lys Ala Asn Phe Thr Lys Thr Val
240 1 5 10
243 <210> SEQ ID NO: 15
244 <211> LENGTH: 19
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 15

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## RAW SEQUENCE LISTING

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Input Set : A:\US Utility SEQ ID LST.txt

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249  Lys Gly Val Thr Ile Pro Ser Gln Arg Arg Tyr Val Tyr Tyr Tyr Ser
250      1                      5                      10                      15
251  Tyr Leu Leu
254 <210> SEQ ID NO: 16
255 <211> LENGTH: 8
256 <212> TYPE: PRT
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 16
260  Arg Tyr Ser Asp Thr Thr Asp Ser
261      1                      5
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 11
266 <212> TYPE: PRT
267 <213> ORGANISM: Homo sapiens
269 <400> SEQUENCE: 17
270  Lys Gly Val Thr Ile Pro Ser Gln Arg Arg Tyr
271      1                      5                      10
274 <210> SEQ ID NO: 18
275 <211> LENGTH: 7
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 18
280  His Thr Gln Ile Thr Lys Val
281      1                      5
284 <210> SEQ ID NO: 19
285 <211> LENGTH: 29
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Primer
292 <400> SEQUENCE: 19
293  ggggccacat gacagccatc atcaaagag
296 <210> SEQ ID NO: 20
297 <211> LENGTH: 29
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Primer
304 <400> SEQUENCE: 20
305  ggtctagatc agacttttgt aatttgtga
308 <210> SEQ ID NO: 21
309 <211> LENGTH: 4
310 <212> TYPE: PRT
311 <213> ORGANISM: Homo sapiens
313 <220> FEATURE:
314 <221> NAME/KEY: misc_feature
315 <222> LOCATION: (2)...(3)
316 <223> OTHER INFORMATION: Xaa = Any amino acid
318 <400> SEQUENCE: 21

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/870,379

DATE: 01/28/2002

TIME: 14:56:21

Input Set : A:\US Utility SEQ ID LST.txt

Output Set: N:\CRF3\01282002\I870379.raw

L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21